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| (21) International Application Number: PCT/US00/05766 (22) International Filing Date: 3 March 2000 (03.03.00) (30) Priority Data: 60/122,810 4 March 1999 (04.03.99) US 60/147,932 9 August 1999 (09.08.99) US 60/158,171 7 October 1999 (07.10.99) US (71) Applicant (for all designated States except US): HENKEL CORPORATION [US/US]; Suite 200, 2500 Renaissance Boulevard, Gulph Mills, PA 19406 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): GOODREAU, Bruce; H. [US/US]; 11455 35 Mile Road, Romeo, MI 48065 (US). MILLER, Robert, W. [US/US]; 1510 Predmore Road, Oakland, MI 48363 (US). PRESCOTT, Thomas, J. [US/US]; 1601 Brentwood, Troy, MI 48098 (US). ENGEL, Christopher, A. [US/US]; 28477 Franklin Road, Apt. 148, Southfield, MI 48034 (US). MURPHY, Michael, A. [US/US]; 25027 Wellington Drive, Macomb, MI 48044 (US). BERSHAS, James, P. [US/US]; 2284 Strader Drive, West Bloomfield, MI 48324 (US). PIERCE, John [US/US]; 13124 Winchester, Huntington Woods, MI 48070 (US). | | (74) Agent: HARPER, Stephen, D.; Henkel Corporation, Suite 200, 2500 Renaissance Boulevard, Gulph Mills, PA 19406 (US). (81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> |
| (54) Title: COMPOSITION AND PROCESS FOR TREATING METAL SURFACES | | |
| (57) Abstract <p>A metal substrate is provided with a coating that (i) provides substantial corrosion resistance, (ii) makes it possible to shape the substrate by roll forming and similar light cold forming operations without the need for any oil or wax lubricant, and (iii) has good adhesion to subsequently applied paint. This is achieved by coating the metal substrate surface with an aqueous liquid composition that contains acrylate polymer resin, wax, and hexavalent chromium and then drying this coating into place on the surface to produce the desired dry coating.</p> | | |